

## Freeform Search

**Database:** US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Term:** L45 and (oscillat\$5 or synthesiz\$4 or generat\$4 or produc\$6 or envelop\$4 or modulat\$5 or waveform\$6 or wave-form\$6 or shap\$5)

**Display:** 100 **Documents in Display Format:** - **Starting with Number** 1

**Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

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Main Menu

Show 8 Numbers

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Cases

## Search History

**DATE:** Thursday, March 13, 2003 [Printable Copy](#) [Create Case](#)

### Set Name Query

side by side

### Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L46</u>	L45 and (oscillat\$5 or synthesiz\$4 or generat\$4 or produc\$6 or envelop\$4 or modulat\$5 or waveform\$6 or wave-form\$6 or shap\$5)	9	<u>L46</u>
<u>L45</u>	L44 and (control\$5 or custom\$9 or interact\$6 or interfac\$4 or inter-fac\$4 or inter-act\$6 or user or operator or technician or console)	9	<u>L45</u>
<u>L44</u>	L42 and (phase)	9	<u>L44</u>
<u>L43</u>	L42 and (gradient)	0	<u>L43</u>
<u>L42</u>	L41 and (radio-frequency or rf or "radio frequency")	9	<u>L42</u>
<u>L41</u>	L40 and (keyboard or mouse or window\$4 or default or value or scan\$5 or disk or stor\$4)	9	<u>L41</u>
<u>L40</u>	L39 and (analog or digital\$3 or ADC or dac or "analog-to-digital" or "digital-to-analog")	9	<u>L40</u>



<u>L39</u>	L38 and (channel or receive\$4 or transmit\$6 or detect\$5 or coil)	9	<u>L39</u>
<u>L38</u>	L37 and (real or timing or deliver\$4)	9	<u>L38</u>
<u>L37</u>	L36 and (scaler or scaling or scale or time or block or line or vertical\$3)	9	<u>L37</u>
<u>L36</u>	L35 and (display\$4 with pulse with sequence)	9	<u>L36</u>
<u>L35</u>	L15 and ((editor or editing or edit or tailor\$4) with menu)	12	<u>L35</u>
<u>L34</u>	L12 and (display\$4 with pulse with sequence)	1	<u>L34</u>
<u>L33</u>	L26 and (display\$4 with pulse with sequence)	9	<u>L33</u>
<u>L32</u>	L29 and (display\$4 with pulse with sequence)	0	<u>L32</u>
<u>L31</u>	L30 and (display\$4 with pulse with sequence)	0	<u>L31</u>
<u>L30</u>	L29 and (real or timing or deliver\$4)	2	<u>L30</u>
<u>L29</u>	L28 and (scaler or scaling or scale or time or block or line or vertical\$3)	3	<u>L29</u>
<u>L28</u>	L27 and (channel or receive\$4 or transmit\$6 or detect\$5 or coil)	3	<u>L28</u>
<u>L27</u>	L26 and (gradient)	3	<u>L27</u>
<u>L26</u>	L25 and (radio-frequency or rf or "radio frequency")	13	<u>L26</u>
<u>L25</u>	L24 and (phase)	18	<u>L25</u>
<u>L24</u>	L20 and (keyboard or mouse or window\$4 or default or value or scan\$5 or disk or store\$4)	20	<u>L24</u>
<u>L23</u>	L22 and (phase)	3	<u>L23</u>
<u>L22</u>	L21 and (gradient)	3	<u>L22</u>
<u>L21</u>	L20 and (radio-frequency or rf or "radio frequency")	13	<u>L21</u>
<u>L20</u>	L19 and (analog or digital\$3 or ADC or dac or "analog-to-digital" or "digital-to-analog")	20	<u>L20</u>
<u>L19</u>	L18 and (oscillate\$5 or synthesize\$4 or generate\$4 or produce\$6 or envelope\$4 or modulate\$5 or waveform\$6 or wave-form\$6 or shape\$5)	21	<u>L19</u>
<u>L18</u>	L17 and (control\$5 or custom\$9 or interact\$6 or interface\$4 or inter-face\$4 or inter-act\$6 or user or operator or technician or console)	21	<u>L18</u>
<u>L17</u>	L16 and ((editor or editing or edit or tailor\$4) with (pulse or choice or selection or menu or sequence or shape or waveform\$6 or wave-form\$6 or "wave form\$6" or envelope\$5 or signal or echo))	21	<u>L17</u>
<u>L16</u>	L15 and (editor or editing or edit or tailor\$4)	40	<u>L16</u>
<u>L15</u>	L14 and (menu)	108	<u>L15</u>
<u>L14</u>	L13 and (display\$4 or monitor\$4 or computer or processor or processor or gui or crt or graphical\$4 or console)	4620	<u>L14</u>
<u>L13</u>	L1 and (pulse with (sequence or sequencer or control\$4 or custom\$9 or programmer or programmer))	6806	<u>L13</u>
<u>L12</u>	L11 and (gradient)	8	<u>L12</u>
<u>L11</u>	L10 and (radio-frequency or rf or "radio frequency")	19	<u>L11</u>



<u>L10</u>	L8 and (analog or digital\$3 or ADC or dac or "analog-to-digital" or "digital-to-analog")	39	<u>L10</u>
<u>L9</u>	L8 and (analod or digital\$3 or ADC or dac or "analog-to-digital" or "digital-to-analog")	39	<u>L9</u>
<u>L8</u>	L7 and (oscillat\$5 or synthesiz\$4 or generat\$4 or produc\$6 or envelop\$4 or modulat\$5 or waveform\$6 or wave-form\$6 or shap\$5)	40	<u>L8</u>
<u>L7</u>	L6 and (keyboard or mouse or window\$4 or default or value or scan\$5 or disk or stor\$4)	40	<u>L7</u>
<u>L6</u>	L5 and (control\$5 or custom\$9 or interact\$6 or interfac\$4 or inter-fac\$4 or inter-act\$6 or user or operator or technician)	40	<u>L6</u>
<u>L5</u>	L4 and (menu)	40	<u>L5</u>
<u>L4</u>	L3 and (display\$4 or monitor\$4 or computer or processer or processor or gui or crt or graphical\$4)	532	<u>L4</u>
<u>L3</u>	L2 and (editor or editing or edit or tailor\$4)	606	<u>L3</u>
<u>L2</u>	L1 and (pulse with (sequence or sequencer or control\$4 or custom\$9))	6776	<u>L2</u>
<u>L1</u>	((magnetic adj resonance) or MRI or NMR)	142743	<u>L1</u>

END OF SEARCH HISTORY



# WEST

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 5465361 A

L34: Entry 1 of 1

File: USPT

Nov 7, 1995

US-PAT-NO: 5465361

DOCUMENT-IDENTIFIER: US 5465361 A

TITLE: Microcode linker/loader that generates microcode sequences for MRI sequencer by modifying previously generated microcode sequences

DATE-ISSUED: November 7, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoenninger, III; John C.	Oakland	CA		

US-CL-CURRENT: 717/168; 324/309, 324/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWOC

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Term	Documents
PULSE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	780353
PULSES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	409237
SEQUENCE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	805376
SEQUENCES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	201922
DISPLAY\$4	0
DISPLAY.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1262672
DISPLAYA.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	12
DISPLAYABEL.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
DISPLAYABIE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	2
DISPLAYABLE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	7065
DISPLAYABLY.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	19
(L12 AND (DISPLAY\$4 WITH PULSE WITH SEQUENCE)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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## Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20030028118 A1

L46: Entry 1 of 9

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030028118  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030028118 A1

TITLE: Interactive systems and methods for controlling the use of diagnostic or therapeutic instruments in interior body regions

PUBLICATION-DATE: February 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dupree, Daniel A.	Saratoga	CA	US	
Nguyen, Tuan	Austin	TX	US	
Panescu, Dorin	San Jose	CA	US	
Whayne, James G.	San Jose	CA	US	
McGee, David	Sunnyvale	CA	US	
Swanson, David K.	Campbell	CA	US	

US-CL-CURRENT: 600/509

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Drawn	Desc	Image									

☐ 2. Document ID: US 20020115941 A1

L46: Entry 2 of 9

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115941  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020115941 A1

TITLE: Systems and methods using annotated images for controlling the use of diagnostic or therapeutic instruments in interior body regions

PUBLICATION-DATE: August 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Whayne, James G.	Saratoga	CA	US	
Swanson, David K.	Mountain View	CA	US	
Panescu, Dorin	Sunnyvale	CA	US	
Dupree, Daniel A.	Saratoga	CA	US	

US-CL-CURRENT: 600/523; 600/374, 702/68, 707/102



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC
Draw Desc	Image										

☐ 3. Document ID: US 20010044585 A1

L46: Entry 3 of 9

File: PGPB

Nov 22, 2001

PGPUB-DOCUMENT-NUMBER: 20010044585  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010044585 A1

TITLE: Interactive systems and methods for controlling the use of diagnostic or therapeutic instruments in interior body regions

PUBLICATION-DATE: November 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dupree, Daniel A.	Saratoga	CA	US	
Nguyen, Tuan	Austin	TX	US	
Panescu, Dorin	San Jose	CA	US	
Whayne, James G.	San Jose	CA	US	
McGee, David	Sunnyvale	CA	US	
Swanson, David K.	Campbell	CA	US	

US-CL-CURRENT: 600/509

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC
Draw Desc	Image									

☐ 4. Document ID: US 6389311 B1

L46: Entry 4 of 9

File: USPT

May 14, 2002

US-PAT-NO: 6389311  
DOCUMENT-IDENTIFIER: US 6389311 B1

TITLE: Systems and methods using annotated images for controlling the use of diagnostic or therapeutic instruments in interior body regions

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Whayne, James G.	Saratoga	CA		
Swanson, David K.	Mountain View	CA		
Panescu, Dorin	Sunnyvale	CA		
Dupree, Daniel A.	Saratoga	CA		

US-CL-CURRENT: 600/523

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC
Draw Desc	Image									



☐ 5. Document ID: US 6289239 B1

L46: Entry 5 of 9

File: USPT

Sep 11, 2001

US-PAT-NO: 6289239

DOCUMENT-IDENTIFIER: US 6289239 B1

TITLE: Interactive systems and methods for controlling the use of diagnostic or therapeutic instruments in interior body regions

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Panescu; Dorin	Sunnyvale	CA		
McGee; David	Sunnyvale	CA		
Whayne; James G.	Saratoga	CA		
Burnside; Robert R.	Mountain View	CA		
Swanson; David K.	Mountain View	CA		
Dupree; Daniel A.	Saratoga	CA		

US-CL-CURRENT: 600/523

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 6. Document ID: US 6192266 B1

L46: Entry 6 of 9

File: USPT

Feb 20, 2001

US-PAT-NO: 6192266

DOCUMENT-IDENTIFIER: US 6192266 B1

TITLE: Systems and methods for controlling the use of diagnostic or therapeutic instruments in interior body regions using real and idealized images

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dupree; Daniel A.	Saratoga	CA		
Nguyen; Tuan	San Jose	CA		
Panescu; Dorin	Sunnyvale	CA		
Whayne; James G.	Saratoga	CA		

US-CL-CURRENT: 600/427; 600/523

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 7. Document ID: US 6115626 A

L46: Entry 7 of 9

File: USPT

Sep 5, 2000

US-PAT-NO: 6115626



DOCUMENT-IDENTIFIER: US 6115626 A

TITLE: Systems and methods using annotated images for controlling the use of diagnostic or therapeutic instruments in instruments in interior body regions

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Whayne; James G.	Saratoga	CA		
Swanson; David K.	Mountain View	CA		
Panescu; Dorin	Sunnyvale	CA		
Dupree; Daniel A.	Saratoga	CA		

US-CL-CURRENT: 600/427; 600/523

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMIC
Draw Desc	Image									

☐ 8. Document ID: US 6106460 A

L46: Entry 8 of 9

File: USPT

Aug 22, 2000

US-PAT-NO: 6106460

DOCUMENT-IDENTIFIER: US 6106460 A

TITLE: Interface for controlling the display of images of diagnostic or therapeutic instruments in interior body regions and related data

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Panescu; Dorin	Sunnyvale	CA		
McGee; David	Sunnyvale	CA		
Whayne; James G.	Saratoga	CA		
Burnside; Robert R.	Mountain View	CA		
Swanson; David K.	Mountain View	CA		
Dupree; Daniel A.	Saratoga	CA		

US-CL-CURRENT: 600/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMIC
Draw Desc	Image									

☐ 9. Document ID: US 6014581 A

L46: Entry 9 of 9

File: USPT

Jan 11, 2000

US-PAT-NO: 6014581

DOCUMENT-IDENTIFIER: US 6014581 A

TITLE: Interface for performing a diagnostic or therapeutic procedure on heart tissue with an electrode structure

DATE-ISSUED: January 11, 2000



## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Whayne; James G.	Saratoga	CA		
Panescu; Dorin	Sunnyvale	CA		
McGee; David	Sunnyvale	CA		
Dupree; Daniel A.	Saratoga	CA		
Swanson; David K.	Mountain View	CA		
Nguyen; Tuan	San Jose	CA		

US-CL-CURRENT: 600/523

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw	Desc	Image								

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Term	Documents
OSCILLAT\$5	0
OSCILLAT.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	28
OSCILLATABIE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
OSCILLATABIIY.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
OSCILLATABLD.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
OSCILLATABLE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	4742
OSCILLATABLES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
OSCILLATABLE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
OSCILLATABLLY.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	5
OSCILLATABLY.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	2639
OSCILLATABY.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1
(L45 AND (OSCILLAT\$5 OR SYNTHESIZ\$4 OR GENERAT\$4 OR PRODUC\$6 OR ENVELOP\$4 OR MODULAT\$5 OR WAVEFORM\$6 OR WAVE-FORM\$6 OR SHAP\$5)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	9

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